Claims:

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- 1. A method of expressing a desired isoform of a gene product in a cell absent undesired isoforms of a gene product, said method comprising:
 - (a) exposing a mammalian cell to at least one nucleic acid, said nucleic acid being at least a partially double-stranded ribonucleic acid and the double-stranded portion having at least 95% sequence identity to a common nucleic acid sequence shared by two or more isoforms of said gene product; and
 - (b) introducing an expression vector encoding a desired isoform of said gene product into said mammalian cell, said desired isoform having a sequence comprising one or more mismatches relative to said double-stranded portion of said nucleic acid, operably linked to a promoter capable of driving expression of said desired isoform in said cell.
- 2. The method of claim 1, wherein said common nucleic acid sequence is at least 19 consecutive nucleotides in length.
- 3. The method of claim 1 or 2, wherein said common nucleic acid sequence is common to all endogenous isoforms of said gene product in said cell.
- 4. The method of any one of claims 1 to 3, wherein the double-stranded portion of said nucleic acid is 100% identical to said common nucleic acid sequence.
 - 5. The method of any one of claims 1 to 4, wherein said nucleic acid is 19 to 25 nucleotides long.
- 30 6. The method of any one of claims 1 to 5, wherein said at least partially double-stranded ribonucleic acid comprises a double-stranded portion of at least 19 nucleotides and at least one two-nucleotide single-stranded 3' overhang.

7. The method of any one of claims 1 to 6, wherein said desired isoform comprises a sequence comprising two or more mismatches relative to said double-stranded portion of said nucleic acid.

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- 8. The method of any of claims 1 to 7, wherein said expression vector encodes said desired isoform using at least one codon that differs from the endogenous sequence coding said desired isoform.
- 10 9. The method of claim 8, wherein said expression vector encodes said desired isoform using two codons that differ from the corresponding endogenous sequence coding said desired isoform.
- 10. The method of claim 8 or 9, wherein said desired isoform has an identicalprotein sequence to the corresponding endogenous isoform.
 - 11. The method of any one of claims 1 to 10, wherein said desired isoform replaces a mutant isoform in the cell.
- 20 12. The method of claim 11, wherein said mutant isoform is oncogenic, apoptotic, tumor suppressive, inflammation inducive or suppressive, or angiogenic.
 - 13. The method of any one of claims 1 to 12, further comprising determining the function of said desired isoform.

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- 14. The method of any one of claims 1 to 13, wherein said cell is a cancer cell.
- 15. The method of claim 14, wherein said cell is selected from the group consisting of HeLa (cervical cancer), PC3 (prostate cancer), MDA-MB-231 (breast cancer) and MCF-7.

- 16. The method of any one of claims 1 to 15, wherein said desired isoform is transcribed under the control of an endogenous promoter.
- 17. The method of any one of claims 1 to 16, wherein said expression vector comprises a constitutive promoter operably linked to said desired isoform.

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- 18. The method of any one of claims 1 to 16, wherein said expression vector comprises an inducible promoter operably linked to said desried isoform.
- 19. The method of any one of claims 1 to16, wherein said expression vector comprises a tissue-specific promoter operably linked to said desired isoform.
- 20. A kit comprising reagents expressing a desired isoform of a gene product in a cell absent undesired isoforms of a gene product, wherein said kit comprises a nucleic acid being at least a partially double-stranded ribonucleic acid and the double-stranded portion having at least 95% sequence identity to a common nucleic acid sequence shared by two or more isoforms of said gene product; and an expression vector encoding a desired isoform of said gene product, said desired isoform having a sequence comprising one or more mismatches relative to said double-stranded portion of said nucleic acid, operably linked to a promoter capable of driving expression of said desired isoform in said cell.
 - 21. A mammalian cell exhibiting isoform-specific expression achieved by any of the methods of claims 1-19.
 - 22. A method for treating a disease comprising administering to a subject in need of treatment an effective amount of a nucleic acid being at least a partially double-stranded ribonucleic acid and the double-stranded portion having at least 95% sequence identity to a common nucleic acid sequence shared by two or more isoforms of said gene product; and an expression vector

encoding a desired isoform of said gene product, said desired isoform having a sequence comprising one or more mismatches relative to said double-stranded portion of said nucleic acid, operably linked to a promoter capable of driving expression of said desired isoform in said cell.

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23. A method of assigning function to a desired isoform, said method comprising:

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 a) exposing a mammalian cell to at least one nucleic acid, said nucleic acid being at least a partially double-stranded ribonucleic acid and the double-stranded portion having at least 95% sequence identity to a common nucleic acid sequence shared by two or more isoforms of said gene product;

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 exposing said mammalian cell to an expression vector encoding a desired isoform of said gene product, said desired isoform having a sequence comprising one or more mismatches relative to said double-stranded portion of said nucleic acid, operably linked to a promoter capable of driving expression of said desired isoform in said cell;

- c) identifying a phenotype of said mammalian cell compared to when said desired isoform is absent, and
- d) assigning said phenotype or function to said desired isoform.